Geo-Spark 2000X - 7 kJ Spread

Ultra Hi-Res Seismic Profiling System

SPARK UP YOUR HI-RES SEISMIC SURVEY WITH INNOVATING NEGATIVE DISCHARGE TECHNOLOGY

The new **Geo-Spark 7000 spread** is based on the ideal combination of:

- the new **portable**, fast charging, **Geo-Spark 2000 X** Power Supply plus a switchable **5 kJ** capacitor unit
- the **400 or 800-tip** Geo-Source Sparker with **maintenance-free** electrodes
- the new, **floating, 2 x 40 mm^2 coaxial** HV cable designed for minimum power loss
- the **compact**, mobile HV cable reel with axial rotating HV contacts plus armored deck lead
- the **24-bit** Mini-Trace II recording system with powerful 64 bit **Geo-Suite Acquisition software**

THE GEO-SPARK CONCEPT, what makes the difference?

The difference is made by the unique concept of the Geo-Spark power supply, which is designed for a very fast, extremely powerful, **NEGATIVE,** High Voltage discharge of 5.6 kV up to 20 kA. It is this electric ***"punch"*** which makes the difference in the **powerful** acoustic pulse, that is providing the resolution and the penetration

Maintenance free electrodes, with 5 year !! operational guarantee ….

By using the Geo-Spark power supplies, **the electrode tip-wear is reduced to practically zero**. Finally, the acoustic signature does not degrade anymore, which still happens as the old-fashioned electrodes are quickly burning away. With the Geo-Spark, there is no more need for tedious electrode trimming, there are **no more electrode consumables** and **no more interruptions** in the survey work. This means that you are saving a lot of time and money. Our so-called **PRESERVING ELECTRODE MODE** will give you continuously good quality data, day after day, month after month, year after year…. It is almost boring…

Portable Geo-Spark 7 kJ Spread

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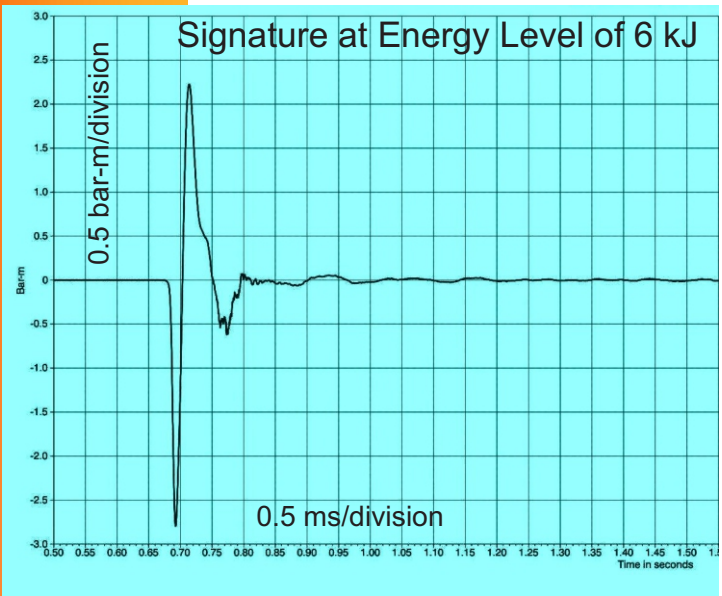


Resolution and Penetration

The Geo-Spark signature consists typically of the very strong **explosive pulse** (CF>1000 Hz), which provides the very high resolution, followed by the **implosive pulse** (CF<750 Hz), which achieves the penetration.

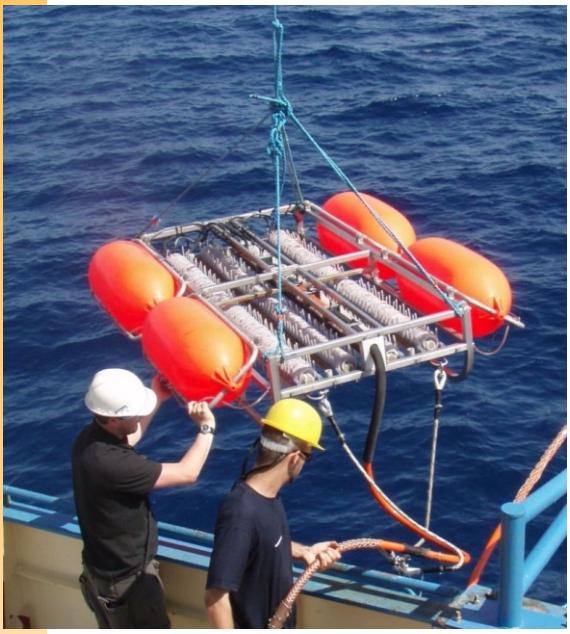
The High Power Geo-Spark Systems have a **proven track record** of successful use in prestigious Oceanographic Research Programs.

< Example Integrating Sparker - Airgun data in Risk Evaluation Study of Transcurrent fault in deep water > 1500 m, location Southern Spain

(Courtesy SEA TECHNOLOGY Feb 2009)

Wide Range of Applications

- For offshore surveys with a **large research vessel** in deep water down to **5000 m** depth.
- For near-shore studies in shallow water depths from **2 m** to **100 m** with a small survey vessel.
- The **Geo-Spark 2000 X power supply** can also be used as **stand-alone** with Geo-Source 400-tip sparkers (marine and fresh water)..... and even with a 300-500 Joule Geo-Boomer .



GEO-SPARK 7000 Power System Main Specifications

- Mains Power: 220- 240 V AC, 50-60 Hz, 16 A
- 95 kg for PS, 95 kg for Capacitor Bank
- Dimensions: H x W x D = 109 x 55 x 71cm
- High Voltage - 5600 V for real acoustic punch
- Energy Output selectable from 100 to 7000 J
- HV charging capability : 2 kJ / sec
- 1 shot every 4 sec at energy of 7000 J
- Indestructible 25 kA -5.6 kV discharge Thyristor
- Very high dI/dT, **NO** electrical oscillations
- 5 year guarantee for discharge capacitors
- Fully ground-referenced, 100 % safe
- Humidity and Temperature protection
- State-of-the-art micro-processor based control and monitoring system
- **maintenance-free** electrodes, 5 year guarantee
- Proven system **Reliability** and **Quality**

GEO Marine Survey Systems b.v.
Sheffieldstraat 8
3047 AP Rotterdam
The Netherlands

Phone: + 31 10 41 55 755
Fax: +31 10 41 55 351
info@geomarinesurveysystems.com
Website: www.geo-spark.com